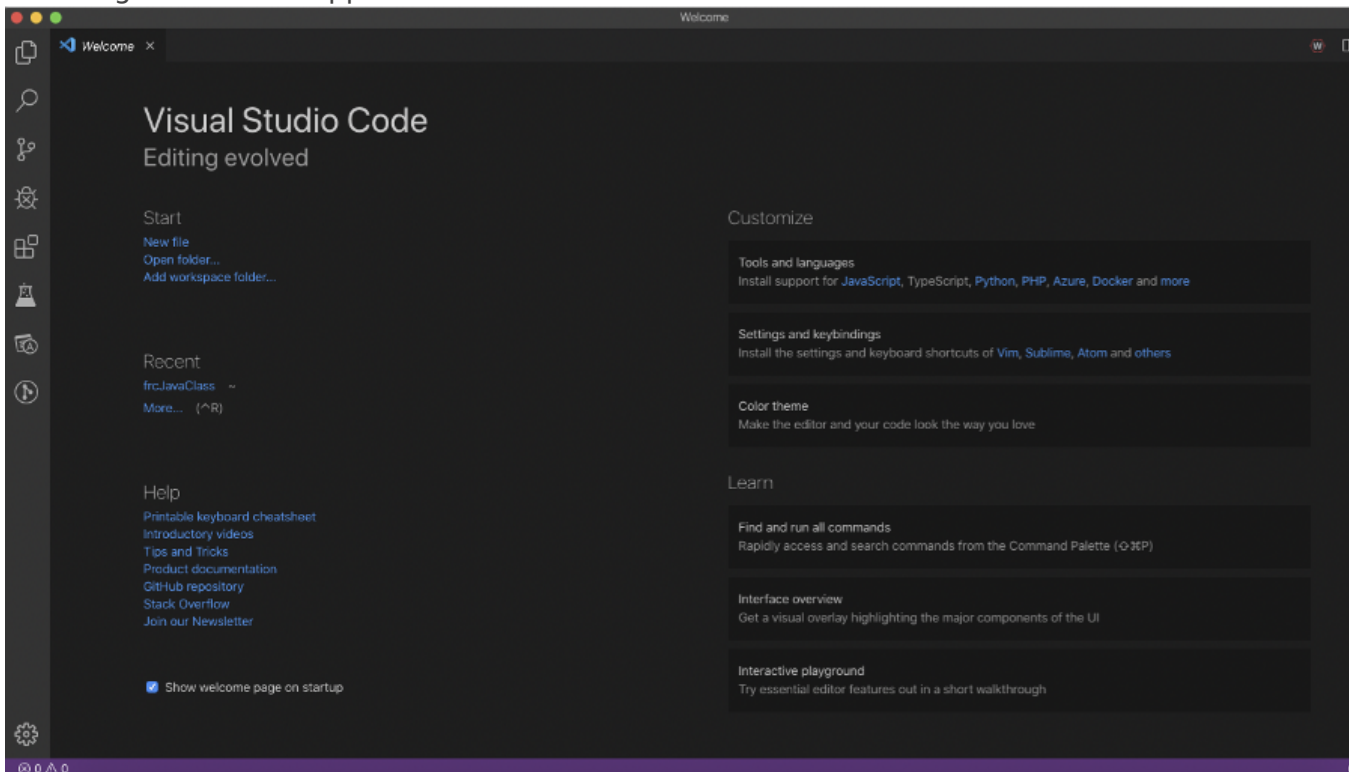
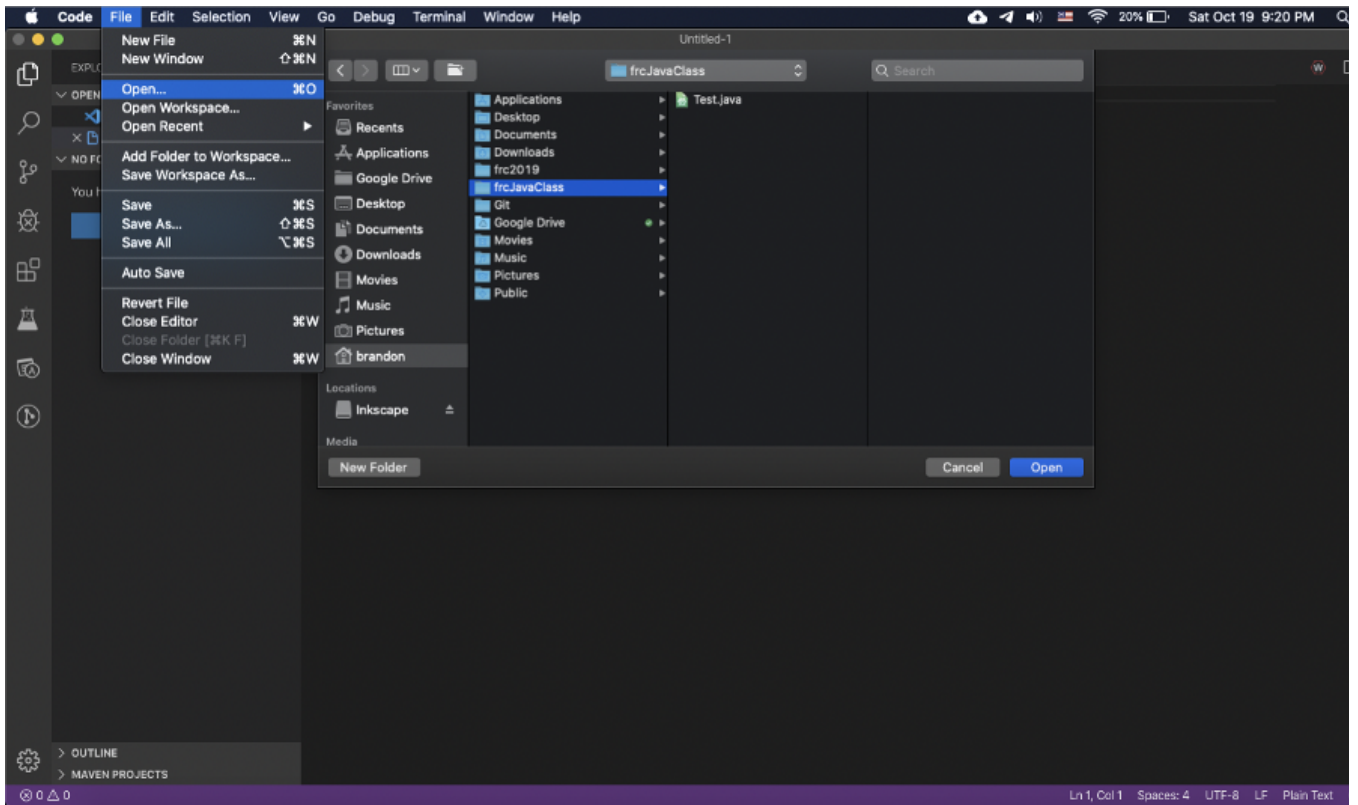


L01 - Visual Studio Code (VS Code) Lab

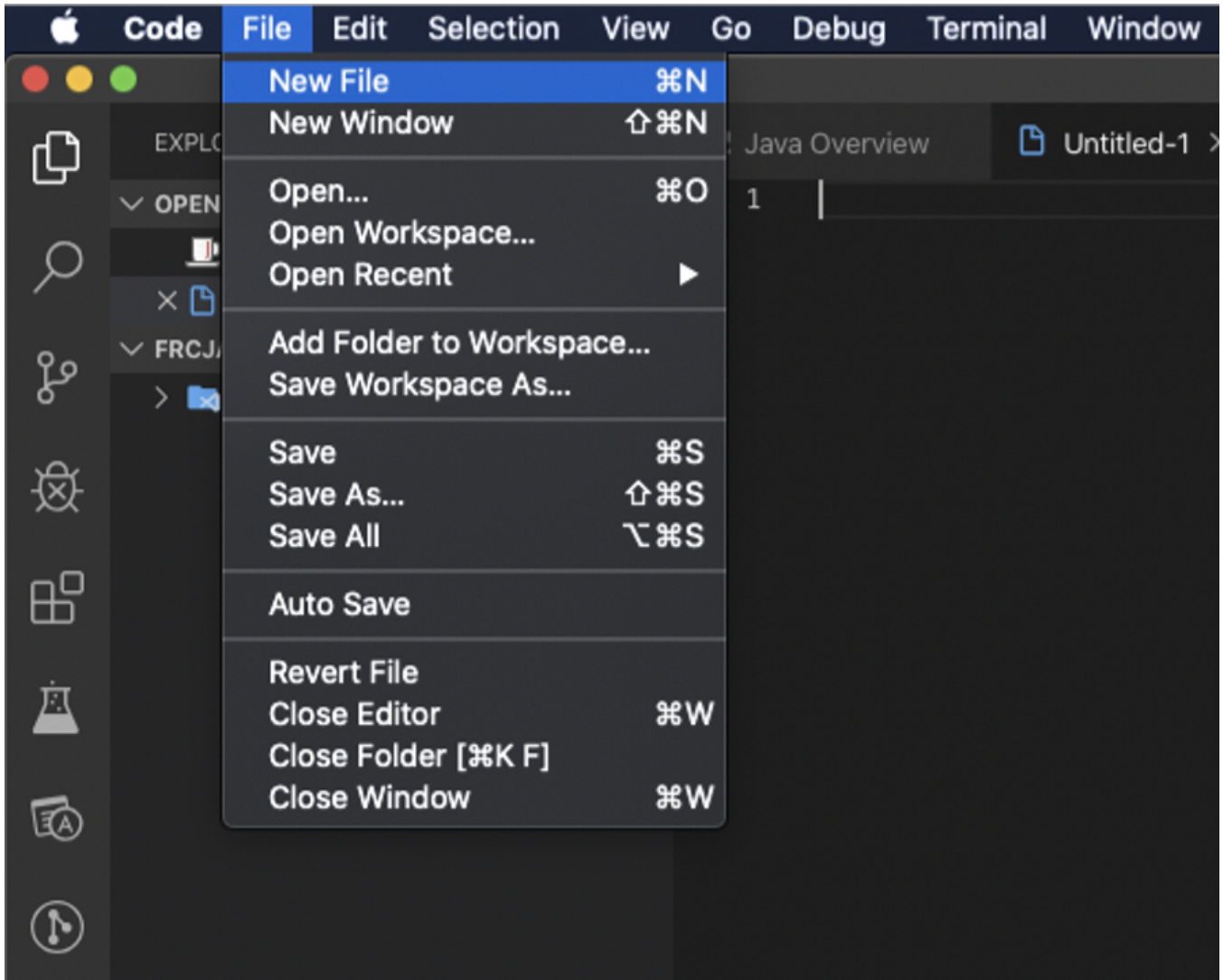
1. Install Visual Studio Code from FIRST, you will need their version with WPILib. [Link](#)
2. In this exercise, we'll use an IDE to enter and execute a Java program. Start and the following window will appear:



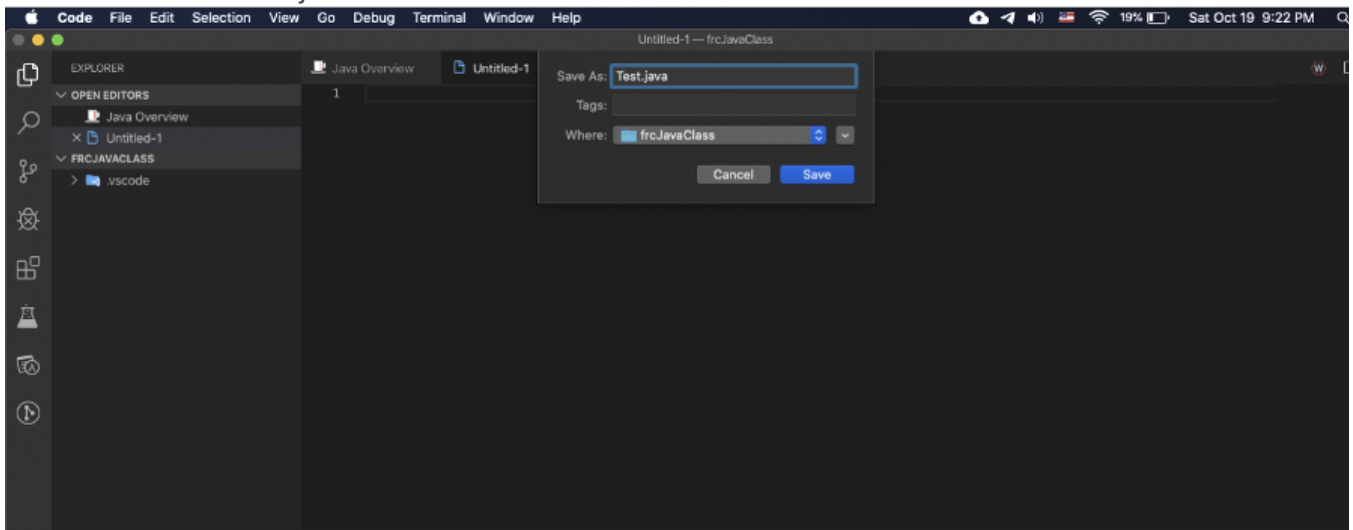
3. Select the File > Open and either open a folder to use as the workspace or create a new one



4. Create a new file File > New File



5. Save the file as Test.java



6. Add the following code to start your program.

```
public class Test {  
}
```

7. Add these standard comment lines at the start of the Class (use your name and the current date), this goes above line 1:

```
/**
 * Print the Answer to Life, the Universe, Everything.
 * @author Enter your name
 * @version Enter today's date
 */
```

8. Enter the following code starting inside your class.

```
public class Test {
    static int answer1 = 0;
    static int answer2;
    static int theAnswer;
    public static void main(String[] args) {
        answer1 = 20;
        answer2 = 2 * answer1;
        theAnswer = answer2 + 2;
        System.out.println("The answer is...");
        System.out.println(theAnswer);
    }
}
```

9. To run the program, press run above the main method. The output should be:

```
The answer is....42
```

10. Create a new file named `ComputeCA`.
11. Create a class in the file named the same as the file name. It always has to be the same. Your class and file name should ALWAYS start with a capital letter.
12. Change the class description to `Computes the circumference and area of a circle`.
13. Change the author and the version by entering your name and today's date, respectively.
14. Enter the signature for the main method, this signature is:

```
public static void main(String[] args){
}
```

15. Declare a variable named `radius` of type `double` that has a value of 4.5.
16. Declare another variable named `circumference` of type `double` that has the value of $2\pi \times \text{radius}$. Use 22.0/7.0 for the value of π .
17. Declare a third variable named `area` of type `double` that has the value of $\pi \times \text{radius}^2$. To easily compute the radius^2 , multiply the radius by itself.
18. Display the value of the `circumference`.

19. Display the value of the `area`.

Circumference: 28.285714285714285

Area: 63.64285714285714

Java API Documentation

If you have enough screen real estate, open your browser and visit <http://java.oracle.com> then follow the link to the API documentation. Having the API window always available speeds up the development process.

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